

Substitute Form PTO-1449 (Modified) AUG 23 2004 PATENT & TRADEMARK OFFICE (b)(1) (b)(2) (b)(3) (b)(6) (b)(7)(C)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14074-014001	Application No. 10/783,995
	Information Disclosure Statement by Applicant (Use several sheets if necessary)		
	Filing Date February 20, 2004	Group Art Unit 1632	

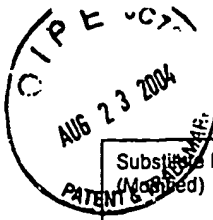
U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
VR	AA	4,511,687	04/16/85	Nakashima et al.			
	AB	5,192,612	03/09/93	Otter et al.			
	AC	5,502,158	03/26/96	Lipinsky et al.			
	AD	5,646,217	07/08/97	Hammond			
VR	AE	6,472,502	10/29/02	Jurgens et al.			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
VR	AF	EP 0 553 394	08/04/93	Europe				
VR	AG	JP 05 339 557	12/21/93	Japan			Abstract	
VR	AH	WO 94/10257	05/11/94	WIPO				
VR	AI	WO 95/10577	04/20/95	WIPO				
VR	AJ	WO 95/20615	08/03/95	WIPO				
VR	AK	WO 96/05264	02/22/96	WIPO				
	AL	DE 44 30 415	03/14/96	Germany				X
VR	AM	EP 0 741 177	11/06/96	Europe				
VR	AN	WO 97/04036	02/06/97	WIPO				
VR	AO	JP 11 302521	11/02/99	Japan			Abstract	
VR	AP	JP 2001 316658	11/16/01	Japan			Abstract	
VR	AQ	WO 02/10303	02/07/02	WIPO				
VR	AR	EP 1 193 294	04/03/02	Europe				
VR	AS	EP 1 236 753	09/04/02	Europe				

Examiner Signature <i>Victoria R. Brown</i>	Date Considered 8-16-05
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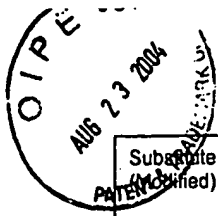


Substitute Form PTO-1449 (Worksheet)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14074-014001	Application No. 10/783,995
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
VR	AA	5,191,037	03/02/1993	Doi et al.			
	AB	5,646,217	07/08/1997	Hammond			
	AC	5,693,389	12/02/1997	Liggat			
	AD	6,191,203	02/20/2001	Asrar et al.			
	AE	6,221,316	04/24/2001	Hänggi et al.			
	AF	6,228,954	05/08/2001	Kaplan et al.			
VR	AG	US 2002/0143116	10/03/2002	Noda et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
VR	AH	EP 0 450 777	10/09/1991	Europe	—	—		
	AI	DE 43 00 420	07/14/1994	Germany				X
VR	AJ	WO 95/10577	04/20/1995	WIPO				
VR	AK	WO 96/08535	03/21/1996	WIPO				
VR	AL	EP 0 826 803	03/04/1998	Europe				
VR	AM	EP 0 890 614	01/13/1999	Europe				
VR	AN	EP 1 193 294	04/03/2002	Europe				
VR	AO	WO 02/28969	04/11/2002	WIPO				
VR	AP	WO 02/50156	06/27/2002	WIPO				
VR	AQ	WO 02/059201	08/01/2002	WIPO				
VR	AR	WO 02/077080	10/03/2002	WIPO				
VR	AS	WO 02/085983	10/31/2002	WIPO				

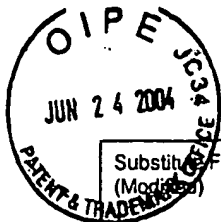
Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
VR	AT	Abe et al., "Synthesis and Characterization of Poly[(R,S)-3-hydroxybutyrate- <i>b</i> -6-hydroxyhexanoate] as a Compatibilizer for a Biodegradable Blend of Poly[(R)-3-hydroxybutyrate] and Poly(6-hydroxyhexanoate)", <i>Macromolecules</i> , 27(21):6012-6017 (1994).
VR	AU	Iannace et al., "Poly(3-hydroxybutyrate)- <i>co</i> -(3-hydroxyvalerate)/Poly-L-Lactide Blends: Thermal and Mechanical Properties", <i>Journal of Applied Polymer Science</i> , 54:1525-1535 (1994).
Examiner Signature <i>Uchay Rohan</i>		Date Considered 8-16-05
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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
VR	AV	Mallardé et al., "Hydrolytic Degradability of poly(3-hydroxyoctanoate) and of a poly(3-hydroxyoctanoate)/poly(R,S-lactic acid) Blend", <u>Polymer</u> , 39(15):3387-3392 (1998).
VR	AW	Scandola et al., "Polymer Blends of Natural Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and a Synthetic Atactic Poly(3-hydroxybutyrate). Characterization and Biodegradation Studies.", <u>Macromolecules</u> , 30(9):2568-2574 (1997).
VR	AX	Tsuji et al., "Blends of Crystalline and Amorphous Poly(lactide) III. Hydrolysis of Solution-cast Blend Films", <u>Journal of Applied Polymer Science</u> , 64(7):855-863 (1997).

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U.S. Patent Documents							
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K	AA	US 2002/0068810	06/06/2002	Whitehouse et al.			
	AB	Re. 36,548	02/01/2000	Noda			
	AC	4,804,691	02/14/1989	English et al.			
	AD	5,169,889	12/08/1992	Kauffman et al.			
	AE	5,252,646	10/12/1993	Iovine et al.			
	AF	5,312,850	05/17/1994	Iovine et al.			
	AG	5,387,623	02/07/1995	Ryan et al.			
	AH	5,502,116	03/26/1996	Noda			
	AI	5,536,564	07/16/1996	Noda			
	AJ	5,614,576	03/25/1997	Rutherford et al.			
	AK	5,656,367	08/12/1997	Iovine et al.			
	AL	5,658,646	08/19/1997	Takano et al.			
	AM	5,700,344	12/23/1997	Edgington et al.			
	AN	5,711,842	01/27/1998	Kemmish			
	AO	5,753,364	05/19/1998	Rutherford et al.			
	AP	5,753,724	05/19/1998	Edgington et al.			
	AQ	5,853,876	12/29/1998	Takano et al.			
	AR	5,952,405	09/14/1999	Schoenberg et al.			
	AS	6,086,997	07/11/2000	Patel et al.			
	AT	6,290,803	09/18/2001	Maksymkiw et al.			
K	AU	6,306,904	10/23/2001	Gordziel			
	AV	6,307,003	10/23/2001	Grigat et al.			
	AW	6,319,352	11/20/2001	Simmier et al.			
U	AX	6,365,680	04/02/2002	Edgington et al.			

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							Yes	No
WR	AY	0 609 713 A1	08/10/1994	Europe				
WR	AZ	DE 9304018 (Abstract Only)	10/13/1998	Germany			Abst.	
WR	AAA	GB 2 136 003 A	09/12/1984	United Kingdom				
WR	ABB	JP 57030776 (Abstract Only)	02/19/1982	Japan			Abst.	
WR	ACC	JP 83046277 (Abstract Only)	10/15/1983	Japan			Abst.	
WR	ADD	WO 95/02649	01/26/1995	WIPO				
WR	AEE	WO 01/15671 A2	03/08/2001	WIPO				
WR	AFF	WO 02/05581 A2	07/18/2002	WIPO				
WR	AGG	WO 02/05581 A3	07/18/2002	WIPO				

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Examiner Initial	Desig. ID	Document
WR	AHH	Avella et al., "Poly(3-hydroxybutyrate)/poly(methyleneoxide) blends: thermal, crystallization and mechanical behaviour", <u>Polymer</u> , Vol. 38, No. 25, pp. 6135-6143 (1997)
WR	AII	Blümm et al., "Miscibility, crystallization and melting of poly(3-hydroxybutyrate)/poly(L-lactide) blends", <u>Polymer</u> , Vol. 36, No. 21, pp. 4077-4081 (1995)
WR	AJJ	Chen et al., "Miscibility and morphology of blends of poly(3-hydroxybutyrate) and poly(vinyl butyral)", <u>Polymer</u> , Vol. 42, pp. 8407-8414 (2001)
WR	AKK	Chiu et al., "Crystallization induced microstructure of crystalline/crystalline poly(vinylidene fluoride)/poly(3-hydroxybutyrate) blends probed by small angle X-ray scattering", <u>Polymer</u> , Vol. 42, pp. 5749-5754 (2001)
WR	ALL	Choe et al., "Miscibility of poly(3-hydroxybutyrate-co-3hydroxyvalerate) and poly(vinyl chloride) blends", <u>Polymer</u> , Vol. 36, No. 26, pp. 4977-4982 (1995)
WR	AMM	Chun et al., "Thermal properties of poly(hydroxybutyrate-co-hydroxyvalerate) and poly(ε-caprolactone) blends", <u>Polymer</u> , Vol. 41, pp. 2305-2308 (2000)
WR	ANN	Class et al., "The Viscoelastic Properties of Rubber-Resin Blends. I. The Effect of Resin Structure", <u>J. Appl. Poly Sci.</u> , Vol. 30, No. 2, pp. 805-814 (1985)
WR	AOO	Class et al., "The Viscoelastic Properties of Rubber-Resin Blends. II. The Effect of Resin Molecular Weight", <u>J. Appl. Poly Sci.</u> , Vol. 30, No. 2, pp. 815-824 (1985)
WR	APP	Class et al., "The Viscoelastic Properties of Rubber-Resin Blends. III. The Effect of Resin Concentration", <u>J. Appl. Poly Sci.</u> , Vol. 30, No. 2, pp. 825-842 (1985)
WR	AQQ	Fujita et al., "Miscibility Between Natural Rubber and Tackifiers. I. Phase Diagrams of the Blends of Natural Rubber with Rosin and Terpene Resins", <u>J. Appl. Poly Sci.</u> , Vol. 64, No. 11, pp. 2191-2197 (1997)

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Other Documents (include Author, Title, Date, and Place of Publication)		
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VR	ARR	Fujita et al., "Effects of Miscibility on Probe Tack of Natural-Rubber-Based Pressure-Sensitive Adhesives", <u>J. Appl. Poly Sci.</u> , Vol. 70, No. 4, pp. 771-776 (1998).
VR	ASS	Fujita et al., "Effects of Miscibility on Peel Strength of Natural-Rubber-Based Pressure-Sensitive Adhesives", <u>J. Appl. Poly Sci.</u> , Vol. 70, No. 4, pp. 777-784 (1998).
VR	ATT	Goh et al., "A completely miscible ternary blend system of poly(3-hydroxybutyrate), poly(ethylene oxide) and polyepichlorohydrin", <u>Polymer</u> , Vol. 40, pp. 5733-5735 (1999).
VR	AUU	Hay et al., "Crystallisation of poly(3-hydroxybutyrate)/polyvinyl acetate blends", <u>Polymer</u> , Vol. 41, pp. 5749-5757 (2000).
VR	AVV	Hobbs et al., "The effect of water on the crystallization of thin films of poly(hydroxybutyrate)", <u>Polymer</u> , Vol. 38, No. 15, pp. 3879-3883 (1997).
VR	AWW	Iriondo et al., "Thermal and infra-red spectroscopic investigations of a miscible blend composed of poly(vinyl phenol) and poly(hydroxybutyrate)", <u>Polymer</u> , Vol. 36, No. 16, pp. 3235-3237 (1995).
VR	AXX	Iwata, "Role of entanglement in crystalline polymers 1. Basic theory", <u>Polymer</u> , Vol. 43, pp. 6609-6626 (2002).
VR	AYY	Kim et al., "Miscibility and Peel Strength of Acrylic Pressure-Sensitive Adhesives: Acrylic Copolymer-Tackifier Resin Systems", <u>J. Appl. Poly Sci.</u> , Vol. 56, No. 2, pp. 201-209 (1995).
VR	AZZ	Luo et al., "The effect of molecular weight on the lamellar structure, thermal and mechanical properties of poly(hydroxybutyrate-co-hydroxyvalerates)", <u>Polymer</u> , Vol. 43, pp. 4159-4166 (2002).
VR	AAAA	Maekawa et al., "Miscibility and tensile properties of poly (β -hydroxybutyrate)-cellulose propionate blends", <u>Polymer</u> , Vol. 40, pp. 1501-1505 (1999).
VR	ABBB	McNally et al., "Polyamide-12 layered silicate nanocomposites by melt blending", <u>Polymer</u> , Vol. 44, pp. 2761-2772 (2003).
VR	ACCC	Miguel et al., "Blends of bacterial poly(3-hydroxybutyrate) with synthetic poly(3-hydroxybutyrate) and poly(epichlorohydrin): transport properties of carbon dioxide and water vapour", <u>Polymer</u> , Vol. 42, pp. 953-962 (2001).
VR	ADDD	Mizumachi et al., "Theory of Tack of Pressure-Sensitive Adhesive. II", <u>J. Appl. Poly Sci.</u> , Vol. 37, No. 11, pp. 3097-3104 (1989).
VR	AEEE	Nakajima et al., Rheology, Composition, and Peel-Mechanism of Block Copolymer-Tackifier-Based Pressure Sensitive Adhesives", <u>J. Appl. Poly Sci.</u> , Vol. 44, No. 8, pp. 1437-1456 (1992).
VR	AFFF	Ohkoshi et al., "Miscibility and solid-state structures for blends of poly[(S)-lactide] with atactic poly[(R,S)-3-hydroxybutyrate]", <u>Polymer</u> , Vol. 41, pp. 5985-5992 (2000).
VR	AGGG	Paul et al., "New nanocomposite materials based on plasticized poly(L-lactide) and organo-modified montmorillonites: thermal and morphological study", <u>Polymer</u> , Vol. 44, pp. 443-450 (2003).
VR	AHHH	Qiu et al., "Melting behaviour of poly(butylenes succinate) in miscible blends with poly(ethylene oxide)", <u>Polymer</u> , Vol. 44, pp. 3095-3099 (2003).
VR	AIHH	Qiu et al., "Miscibility and crystallization of poly(ethylene oxide) and poly(ϵ -caprolactone) blends", <u>Polymer</u> , Vol. 44, pp. 3101-3106 (2003).
VR	AJJJ	Qiu et al., "Poly (hydroxybutyrate)/poly(butylenes succinate) blends: miscibility and nonisothermal crystallization", <u>Polymer</u> , Vol. 44, pp. 2503-2508 (2003).
VR	AKKK	Whitehouse R. S. "Contact Adhesives", <u>Critical Reports on Applied Chemistry, Synthetic Adhesives & Sealants</u> , Chapter 1, Volume 16, edited by WC Wake (1987).
VR	ALLL	Willett et al., "Processing and properties of extruded starch/polymer foams", <u>Polymer</u> , Vol. 43, pp. 5935-5947 (2002).

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VR	AMMM	Xu et al., "In situ FTIR study on melting and crystallization of polyhydroxyalkanoates", <u>Polymer</u> , Vol. 43, pp. 6893-6899 (2002).
VR	ANNN	Yoon et al., "Compatibility of poly(3-hydroxybutyrate)/poly(ethylene-co-vinyl acetate) blends", <u>Polymer</u> , Vol. 39, No. 12, pp. 2479-2487 (1998).
VR	A000	Yoshie et al., "Temperature dependence of cocrystallization and phase segregation in blends of poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate)", <u>Polymer</u> , Vol. 42, pp. 8557-8563 (2001).
VR	APPP	Yuan et al., "Miscibility and transesterification of phenoxy with biodegradable poly(3-hydroxybutyrate)", <u>Polymer</u> , Vol. 39, Vol. 10, pp. 1893-1897 (1998).
VR	AQQQ	Zhang et al., "Miscibility, melting and crystallization behavior of two bacterial polyester/poly(epichlorohydrin-co-ethylene oxide) blend systems", <u>Polymer</u> , vol. 41, pp. 1429-1439 (2000).

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